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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application	No.	Applicant(s)				
	09/749,826		HICKS ET AL.				
Office Action Summary	Examiner		Art Unit				
	Chris Parry		2623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 136(a). In no event, will apply and will exe, cause the applica	COMMUNICATION however, may a reply be tim  xpire SIX (6) MONTHS from to become ABANDONED	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
	Responsive to communication(s) filed on <u>22 January 2007</u> .						
•							
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			•				
<ul> <li>4)  Claim(s) 1-7,17-20,23-34,36 and 37 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-7,17-20,23-34,36 and 37 is/are rejected.</li> <li>7)  Claim(s) 3 and 17 is/are objected to.</li> </ul>							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	ts have been r ts have been r ority document u (PCT Rule 1	received. received in Applications to have been receive 17.2(a)).	on No ed in this National Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4)	Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4/25/07.</li> </ul>	5) 6)	Paper No(s)/Mail Da ) Notice of Informal Pa ) Other:					

## **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 22, 2007 has been entered.

# Response to Arguments

2. Applicant's arguments with respect to claims 1-7, 17-20, 2334, 36, and 37 have been considered but are most in view of the new ground(s) of rejection.

## Claim Objections

3. Claims 3 and 17 are objected to because of the following informalities: In Claim 3, on line 1 "cipher/dechiper" should be changed to --cipher/decipher--. In claim 17, on line 19, "to be executed the processor," should be changed to --to be executed by the processor--. Appropriate correction is required.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib et al. "Rakib" (U.S. 6,889,385) in view of Russo (U.S. 6,732,366).

Regarding Claim 1, Rakib discloses a system for multimedia on demand (figure 7A – 308), the system comprising: a plurality of tuners (780, 700, 702, 704 – figure 7A) and demodulators (820, 738, 746 – figure 7A) sending information signals to a media bus (756 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib teaches, a system data bus (756 – figure 7A) coupled to the media bus (756 – figure 7A) and receiving the information signals (figure 7A) (Col. 35, line 56 to Col. 36, line 30).

Rakib discloses, a network bus (760 – figure 7A) coupled to the system data bus (756 – figure 7A) and receiving the information signals (figure 7A) (Col. 34, lines 48-52 and Col. 36, lines 31-37).

Rakib further discloses a mass storage device (135 – figure 7A) connected to the system data bus...(756 – figure 7A).

Rakib teaches, a data switch (786 – figure 7A) connected to the network bus (760 – figure 7A), the data switch receiving the information signals and sending the information signals and sending the information signals to one or more switch ports (Col. 33, lines 32-35 and Col. 34, lines 53-59).

Rakib further teaches a processor (728 – figure 7A) connected to the system data bus (756 – figure 7A) (Col. 33, lines 24-35) and memory (129 – figure 7A) connected to the system data bus (756 – figure 7A).

Art Unit: 2623

However, Rakib fails to specify that the mass storage device (135 – figure 7A) is used for storing the information signals. In an analogous art, Russo discloses a system for multimedia on demand (Col. 3, lines 9-30), the system comprising a mass storage device (110 – figure 2)... which stores the information signals (Col. 7, lines 44-46). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rakib with the teachings of Russo in order for the mass storage device to store information signals for the benefit of storing incoming programming information which can be used to improve the user's on-demand viewing experience.

As for Claim 2, Rakib and Russo disclose, in particular Russo teaches, a video overlay processor (160 – figure 2) coupled to the media bus (154 – figure 2) and to the system data bus (152 – figure 2) (Col. 9, line 62 to Col. 10, line 4).

As for Claim 3, Rakib and Russo disclose, in particular Rakib teaches, a system further comprising cipher/decipher logic (726, 786 – figure 7A) coupled to the plurality of tuners and demodulators and to the media bus (figure 7A) (Col. 36, lines 4-12 and lines 31-37).

As for Claim 5, Rakib and Russo disclose, in particular Rakib teaches, a system comprising a web server coupled to the system data bus, the web server providing access to content stored in the mass storage device (Col. 44, line 51 to Col. 45, line 5).

Art Unit: 2623

As for Claim 6, Rakib and Russo disclose, in particular Rakib teaches, a graphical user interface stored in the memory that provides access to content stored in the mass storage device (Col. 44, lines 51-67).

As for Claim 7, Rakib and Russo disclose, in particular Rakib teaches, a graphical user interface stored in the memory that provides access to information available from the data switch (Col. 44, lines 51-67).

6. Claims 17-19, and 25-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib in view of Russo and further in view of Craig (U.S. 5,790,176).

Regarding Claim 17, Rakib discloses a system for multimedia on demand (figure 7A – 308), the system comprising: a plurality of tuners (780, 700, 702, 704 – figure 7A) and demodulators (820, 738, 746 – figure 7A) sending information signals to a media bus (756 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib teaches, a system data bus (756 – figure 7A) coupled to the media bus (756 – figure 7A) and receiving the information signals (figure 7A) (Col. 35, line 56 to Col. 36, line 30).

Rakib discloses, a network bus (760 – figure 7A) coupled to the system data bus (756 – figure 7A) and receiving the information signals (figure 7A) (Col. 34, lines 48-52 and Col. 36, lines 31-37).

Art Unit: 2623

Rakib further discloses a mass storage device (135 – figure 7A) connected to the system data bus...(756 – figure 7A).

Rakib teaches a processor (728 – figure 7A) connected to the system data bus (756 – figure 7A) (Col. 33, lines 24-35) and memory (129 – figure 7A) connected to the system data bus (756 – figure 7A).

However, Rakib fails to specify that the mass storage device (135 – figure 7A) is used for storing the information signals and is adapted to receive and store the information signals as a plurality of multimedia content items. Rakib further fails to disclose storing a multimedia-on-demand data table and instructions in memory as claimed.

In an analogous art, Russo discloses a system for multimedia on demand (Col. 3, lines 9-30), the system comprising a mass storage device (110 – figure 2)...which stores the information signals, the mass storage device adapted to receive and store the information signals as a plurality of multimedia content items (Col. 7, lines 44-46, Col. 8, lines 7-41, and Col. 10, lines 21-25).

Russo discloses, a system comprising a memory (158 – figure 2) storing a multimedia-on-demand data table and multimedia-on-demand instructions (Col. 9, line 62 to Col. 10, line 5 and Col. 10, lines 14-20).

Russo further discloses, the multimedia-on-demand table including a plurality of multimedia content usage records, each multimedia content usage record adapted to include a multimedia content usage indicator field to store a multimedia content usage indicator, the multimedia content usage indicator associated with a multimedia content

Art Unit: 2623

item (*i.e.*, which programs stored on the storage device have been viewed) stored on the mass storage device (Col. 5, lines 3-10, Col. 9, line 62 to Col. 10, line 5, and Col. 10, lines 14-39).

Russo teaches, the multimedia-on-demand instructions to be executed the processor, the multimedia-on-demand instructions including instructions to – automatically receive the plurality of multimedia content items...(Col. 10, lines 9-39).

Russo teaches, the multimedia-on-demand instructions to be executed the processor, the multimedia-on-demand instructions including instructions to – send a multimedia-on-demand usage message, the multimedia-on-demand usage message to be based at least in part on the multimedia-on-demand data table (Col. 5, lines 12-31 and Col. 10, lines 9-58). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rakib with the teachings of Russo to include a multimedia-on-demand table and instructions for the benefit of improving the user's on-demand viewing experience.

Rakib and Russo fail to disclose receiving the multimedia content item at a transmission rate that is less than a real time transmission rate in bytes per second.

In an analogous art, Craig discloses receiving a multimedia content item at a transmission rate that is less than a real time transmission rate in bytes per second (*i.e.*, slower than real-time) (Col. 11, line 60 to Col. 12, line 5), thus providing multiple service levels and charging subscribers accordingly. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib and Russo to include receiving the multimedia content item at a less-than-real-

Art Unit: 2623

time transmission rate for the benefit of providing flexible service arrangements that match the needs of subscribers.

As for Claim 18, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches wherein each multimedia content usage record is adapted to include a multimedia content identifier field to store a multimedia content identifier, the multimedia content identifier to correspond to a multimedia content item of the plurality of multimedia content items stored on the mass storage device (Col. 5, lines 3-41).

As for Claim 19, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches wherein a multimedia content usage indicator is selected from the group consisting of a content played indicator, a content purchased indicator, and a content unused indicator (Col. 9, line 62 to Col. 10, line 20).

As for Claim 25, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, wherein the multimedia-on-demand instructions include instructions to receive the plurality of multimedia content items from a multimedia-on-demand service provider, the multimedia-on-demand service provider selected from the group consisting of a direct broadcast satellite television service provider, a cable television service provider, a terrestrial broadcast television service provider, a wireless broadband data service provider, and a wired broadband data service provider (Col. 8, lines 22-41).

Art Unit: 2623

Regarding Claim 26, Rakib discloses a method for providing multimedia-on-demand, the method comprising: receiving information signals at a plurality of tuners (780, 700, 702, 704 – figure 7A) and demodulators (820, 738, 746 – figure 7A) sending information signals to a media bus (756 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib teaches, sending information signals to a media bus (756 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib further teaches receiving the information signals over a system data bus (756 – figure 7A) coupled to the media bus (756 – figure 7A) (Col. 35, line 56 to Col. 36, line 30).

Rakib discloses receiving the information signals over a network bus (760 – figure 7A) coupled to the system data bus (756 – figure 7A) (Col. 34, lines 48-52 and Col. 36, lines 31-37).

Rakib further discloses... a mass storage device (135 – figure 7A) connected to the system data bus...(756 – figure 7A).

Rakib teaches receiving information signals at a data switch (786 – figure 7A) connected to the network bus (760 – figure 7A) (Col. 33, lines 32-35 and Col. 34, lines 53-59).

Rakib further teaches, sending the information signals to one or more switch ports of the data switch (Col. 33, lines 32-35 and Col. 34, lines 53-59).

Art Unit: 2623

Rakib discloses processing the information signals at a processor (729 –figure 7A) connected to the system data bus (756 – figure 7A) (Col. 33, lines 24-35) and memory (129 – figure 7A) connected to the system data bus (756 – figure 7A).

However, Rakib fails to specify that the mass storage device (135 – figure 7A) receives information signals and is adapted to receive and store the information signals as a plurality of multimedia content items. Rakib further fails to disclose storing information signals in memory as claimed.

In an analogous art, Russo discloses a method for multimedia on demand (Col. 3, lines 9-30), the method comprising a mass storage device (110 – figure 2)...that receives the information signals, and stores the information signals (Col. 7, lines 44-46, Col. 8, lines 7-41, and Col. 10, lines 21-25).

Russo discloses a method for storing the information signals in memory (158 – figure 2) connected to the system data bus (152 – figure 2) (Col. 9, line 62 to Col. 10, line 5 and Col. 10, lines 14-20).

Russo teaches, processing an instruction to automatically receive a first multimedia content item...(Col. 10, lines 9-39).

Russo teaches, storing the first multimedia content item (Col. 10, lines 14-20).

Russo discloses, modifying a data table to include a first multimedia content identifier, the first multimedia content identifier corresponding to the first multimedia content item (*i.e.*, which programs stored on the storage device have been viewed) (Col. 5, lines 3-10, Col. 9, line 62 to Col. 10, line 5, and Col. 10, lines 14-39).

Russo teaches, sending a multimedia usage report, the multimedia-on-demand usage message to be based at least in part on the multimedia-on-demand data table (Col. 5, lines 12-31 and Col. 10, lines 9-58). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rakib with the teachings of Russo to include a multimedia-on-demand table and instructions for the benefit of improving the user's on-demand viewing experience.

Rakib and Russo fail to disclose processing the first multimedia content item at a transmission rate that is less than a real time transmission rate in bytes per second. In an analogous art, Craig discloses processing the first multimedia content item at a transmission rate that is less than a real time transmission rate in bytes per second (*i.e.*, slower than real-time) (Col. 11, line 60 to Col. 12, line 5), thus providing multiple service levels and charging subscribers accordingly. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib and Russo to include processing the first multimedia content item at a less-than-real-time transmission rate for the benefit of providing flexible service arrangements that match the needs of subscribers.

As for Claim 27, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches the method further comprising: receiving a multimedia content item usage instruction (play command) related to the first multimedia content item (Col. 11, lines 2-10).

Art Unit: 2623

Russo further teaches, directing usage of the first multimedia content item based at least in part on the multimedia content item usage instruction (play command) (Col. 8, lines 42-52 and Col. 10 lines 20-32).

Russo further teaches, updating the data table based at least in part on the multimedia content item usage instruction (Col. 9, line 62 to Col. 10, line 9).

As for Claim 28, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, wherein the multimedia content item usage instruction is an instruction to playback the multimedia content item as part of a multimedia content item viewing transaction (Col. 6, lines 45-65).

As for Claim 29, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, wherein updating the data table based at least in part on the multimedia content item usage instruction includes storing a first multimedia content item usage indicator, the first multimedia content item usage indicator associated with the first multimedia content identifier (Col. 5, lines 3-10, Col. 9, line 62 to Col. 10, line 5, and Col. 10, lines 14-39).

As for Claim 30, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, wherein the multimedia usage report is based at least in part on the first multimedia content item usage indicator (Col. 6, lines 45-62 and Col. 10, lines 20-48).

Art Unit: 2623

As for Claim 31, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, wherein the first multimedia content item usage indicator is a content played indicator (Col. 10, lines 25-32).

As for Claim 32 and 33, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, the method further comprising: automatically receiving a second multimedia content item...(Col. 9, line 62 to Col. 10, line 19).

Russo further teaches, storing the second multimedia content item (Col. 7, lines 41-46).

Russo further teaches, updating the data table to include a second multimedia content item identifier, the second multimedia content item identifier corresponding to the second multimedia content item (Col. 9, line 62 to Col. 10, line 9).

However, the combination of Rakib, Russo, and Craig fail to specifically disclose the second multimedia content item will replace the first multimedia content item and storing the second multimedia content item includes deleting the first multimedia content item. The examiner gives Official Notice that it is notoriously well known in the art to replace a first stored item with a second item by deleting the first item. Furthermore, it is well known that upon deleting an item, its record would be removed from the list of programming selections available to the user on the storage medium since the item is no longer available to the user. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of

Art Unit: 2623

Rakib, Russo, and Craig with the replacement of content of well-known prior art in order to allow a newer version of content to be received or to enable the receiving of new content by deleting older content in order to free up available storage space.

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib and Russo as applied to claim 1 above, and further in view of Barton et al. "Barton" (U.S. 2002/0118954).

As for Claim 4, Rakib and Russo fail to disclose a storage position identifier for each multimedia content item stored in the memory, the storage position identifier specifying a logical storage position for the multimedia content item, the storage position identifier received from a service provider and updated by the service provider.

In an analogous art, Barton discloses a storage position identifier (aggregate attributes, e.g., viewer-based program ranking ¶ 210-217) for each multimedia content item stored in the memory, the storage position identifier specifying a logical storage position for the multimedia content item (¶ 123), the storage position identifier received from a service provider and updated by the service provider (¶ 219-220), thus enabling service providers more compelling ways to promote viewing of television programming. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib, Russo, and Craig with the teachings of Barton to include a storage position identifier for the benefit of providing a more engaging television viewing experience.

Art Unit: 2623

8. Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib, Russo, and Craig as applied to claim 17 above, and further in view of Chou (U.S. 6,637,031).

Page 15

As for Claims 23 and 24, the combination of Rakib, Russo, and Craig disclose wherein a portion of the multimedia content item being less than the entirety of the multimedia content item is received at a transmission rate that is less than the playback rate in bytes per second (i.e., where the entirety of the content is received at a rate less than the playback rate [Craig – Col. 11 line 43 to Col. 12, line 5], a portion thereof is inherently also received at a rate that is less than the playback rate).

However, the combination of Rakib, Russo, and Craig fail to disclose making a determination, based at least in part on the transmission rate and playback rate, that continuous playback of the entirety of the item can begin prior to the receipt of the entirety of the item.

In an analogous art, Chou discloses that continuous playback of the entirety of the multimedia content item can begin prior to receipt of the entirety of the multimedia content item, and based at least in part on the transmission rate and the playback rate (Col. 2, lines 7-18). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib, Russo, and Craig with the teachings of Chou to begin playback of an incomplete file in order to allow a user to begin watching media content without having to wait for long periods of time for the entire transfer to be complete.

Art Unit: 2623

9. Claims 20 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib, Russo, and Craig as applied to claims 17 and 26 above, and further in view of Barton.

Page 16

As for Claims 20 and 34, the combination of Rakib, Russo, and Craig fail to disclose a storage position identifier for each multimedia content item, the storage position identifier specifying a logical storage position for the multimedia content item, the storage position identifier received from a service provider and updated by the service provider with each change in the multimedia-on-demand data table.

In an analogous art, Barton discloses a storage position identifier (aggregate attributes, e.g., viewer-based program ranking ¶ 210-217) for each multimedia content item, the storage position identifier specifying a logical storage position for the multimedia content item (¶ 123), the storage position identifier received from a service provider and updated by the service provider with each change in the multimedia-on-demand data table (¶ 219-220), thus enabling service providers more compelling ways to promote viewing of television programming. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib, Russo, and Craig with the teachings of Barton to include a storage position identifier for the benefit of providing a more engaging television viewing experience.

10. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib in view of Russo, in view Craig, and in view of Chou.

Art Unit: 2623

Regarding Claim 36, Rakib discloses a method for providing multimedia-on-demand, the method comprising: receiving information signals at a plurality of tuners (780, 700, 702, 704 – figure 7A) and demodulators (820, 738, 746 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib teaches, sending information signals to a media bus (756 – figure 7A) (Col. 32, lines 49-52, Col. 33, lines 24-39, Col. 34, lines 16-52).

Rakib further teaches receiving the information signals over a system data bus (756 – figure 7A) coupled to the media bus (756 – figure 7A) (Col. 35, line 56 to Col. 36, line 30).

Rakib discloses, receiving the information signals over a network bus (760 – figure 7A) coupled to the system data bus (756 – figure 7A) (Col. 34, lines 48-52 and Col. 36, lines 31-37).

Rakib further discloses...a mass storage device (135 – figure 7A) connected to the system data bus...(756 – figure 7A).

Rakib teaches, receiving information signals at a data switch (786 – figure 7A) connected to the network bus (760 – figure 7A) (Col. 33, lines 32-35 and Col. 34, lines 53-59).

Rakib further teaches, sending the information signals to one or more switch ports of the data switch (Col. 33, lines 32-35 and Col. 34, lines 53-59).

Rakib discloses processing the information signals at a processor (729 –figure 7A) connected to the system data bus (756 – figure 7A) (Col. 33, lines 24-35) and memory (129 – figure 7A) connected to the system data bus (756 – figure 7A).

Art Unit: 2623

However, Rakib fails to specify that the mass storage device (135 – figure 7A) receives information signals and is adapted to receive and store the information signals as a plurality of multimedia content items. Rakib further fails to disclose storing information signals in memory as claimed.

In an analogous art, Russo discloses a method for multimedia on demand (Col. 3, lines 9-30), the method comprising a mass storage device (110 – figure 2)...that receives the information signals, and stores the information signals (Col. 7, lines 44-46, Col. 8, lines 7-41, and Col. 10, lines 21-25).

Russo discloses, a method for storing the information signals in memory (158 – figure 2) connected to the system data bus (152 – figure 2) (Col. 9, line 62 to Col. 10, line 5 and Col. 10, lines 14-20).

Russo teaches, automatically receiving a portion of a multimedia content item...(Col. 10, lines 9-39).

Russo teaches, storing a portion of a multimedia content item (Col. 10, lines 14-20). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rakib with the teachings of Russo to include a multimedia-on-demand table and instructions for the benefit of improving the user's ondemand viewing experience.

Rakib and Russo fail to disclose processing a portion of a multimedia content item at a transmission rate, the portion of the multimedia content item being less than the entirety of the multimedia content item, the transmission rate is less than the playback rate of the multimedia content item in bytes per second. In an analogous art,

Art Unit: 2623

Craig discloses processing a portion of a multimedia content item at a transmission rate, the portion of the multimedia content item being less than the entirety of the multimedia content item in bytes per second (*i.e.*, slower than real-time) (Col. 11, line 60 to Col. 12, line 5), thus providing multiple service levels and charging subscribers accordingly. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib and Russo to include processing the first multimedia content item at a less-than-real-time transmission rate for the benefit of providing flexible service arrangements that match the needs of subscribers.

The combination of Rakib, Russo, and Craig fail to disclose making a determination that continuous playback of the entirety of the multimedia content item can begin prior to the receipt of the entirety of multimedia content item.

In an analogous art, Chou discloses that continuous playback of the entirety of the multimedia content item can begin prior to receipt of the entirety of the multimedia content item, and based at least in part on the transmission rate and the playback rate (Col. 2, lines 7-18). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib, Russo, and Craig with the teachings of Chou to begin playback of an incomplete file in order to allow a user to begin watching media content without having to wait for long periods of time for the entire transfer to be complete.

11. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rakib, Russo, Craig, and Chou as applied to claim 36 above, and further in view of Barton.

Art Unit: 2623

As for Claim 37, the combination of Rakib, Russo, and Craig disclose, in particular Russo teaches, modifying a data table to include a multimedia content item identifier, the multimedia content item identifier corresponding to the multimedia content item (*i.e.*, which programs stored on the storage device have been viewed) (Col. 5, lines 3-10, Col. 9, line 62 to Col. 10, line 5, and Col. 10, lines 14-39).

Russo further teaches, sending a multimedia usage report, the multimedia usage report based at least in part on the data table (Col. 5, lines 12-31 and Col. 10, lines 9-58).

However, the combination of Rakib, Russo, and Craig fail to disclose receiving a storage position identifier from a service provider for each multimedia content item, the storage position identifier specifying a logical storage position for the multimedia content item, the storage position identifier updated by the service provider with each change in the data table.

In an analogous art, Barton discloses receiving a storage position identifier (aggregate attributes, e.g., viewer-based program ranking ¶ 210-217) from a service provider for each multimedia content item, the storage position identifier specifying a logical storage position for the multimedia content item, the storage position identifier updated by the service provider with each change in the data table (¶ 219-220), thus enabling service providers more compelling ways to promote viewing of television programming. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rakib, Russo, and Craig with

Application/Control Number: 09/749,826 Page 21

Art Unit: 2623

the teachings of Barton to include a storage position identifier for the benefit of providing a more engaging television viewing experience.

#### Conclusion

- 12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - ➤ Rodriguez et al. (U.S. 2002/0009149) A method for adaptive video decoding includes determining whether a resource constrained mode is to be initiated, and responsive to a determination that the resource constrained mode is to be initiated, initiating the resource constrained mode, including foregoing the decoding of portions of received video input.
  - ➤ Eames et al. (U.S. 6,317,884) A residential gateway for distributing video, data and telephony services.
  - Vantalon et al. (U.S. 6,628,891) Conditional access apparatus is provided for use with digital television receivers and other digital broadband receivers.
  - Veltman et al. (U.S. 2002/0152311) See figure 1
  - Edens et al. (U.S. 6,611,537) See figure 22
  - Akatsu et al. (U.S. 6,633,547) See figures 5 and 9
  - ➤ Edson et al. (U.S. 6,526,581) The present invention utilizes a gateway providing an open software interface to control in-home communications and to enable in-home devices of various divergent technologies to selectively access external communication features.

Application/Control Number: 09/749,826 Page 22

Art Unit: 2623

➤ Shimomura et al. (U.S. 6,526,580) - A broadband data broadcast system that allows rich multimedia content to be delivered to a plurality of subscribers is disclosed.

- ➤ Williams et al. (U.S. 6,202,211) A system includes a TV, conventional input devices, and a set top box for interfacing the TV to the network.
- ➤ Laubach et al. (U.S. 6,081,533) See figure 13

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Parry whose telephone number is (571) 272-8328. The examiner can normally be reached on Monday through Friday, 8:00 AM EST to 4:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/749,826 Page 23

Art Unit: 2623

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Chris Parry Examiner Art Unit 2623

/CP/

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